

Learning to Fly: The Wright Brother's Adventure			
2007 Science and Technology			
Learning Results: Parameters for Essential Instruction			
Maine Science and Technology			
Grades 6-8			
Activity/Lesson	State	Standards	
The Society	ME	SCT.6-8.C4.a	Describe how women and men of various backgrounds, working in teams or alone and communicating about their ideas extensively with others, engage in science, engineering, and related fields.
The Society	ME	SCT.6-8.C4.b	Describe a breakthrough from the history of science that contributes to our current understanding of science.
Wright Brothers: 1900 Glider	ME	SCT.6-8.B2.d	Implement a proposed design.
Wright Brothers: 1901 Glider	ME	SCT.6-8.B2.d	Implement a proposed design.
Wright Brothers: 1902 Glider	ME	SCT.6-8.B2.d	Implement a proposed design.
Wright Brothers: 1903 Flyer	ME	SCT.6-8.B2.d	Implement a proposed design.
Meet the Wrights	ME	SCT.6-8.C4.b	Describe a breakthrough from the history of science that contributes to our current understanding of science.
1900: Kitty Hawks	ME	SCT.6-8.B2.g	Explain the design process including the stages of problem identification, solution design, implementation, and evaluation.
1901: The First Improvement	ME	SCT.6-8.B1.e	Use logic, critical reasoning and evidence to develop descriptions, explanations, predictions, and models.
1901: The First Improvement	ME	SCT.6-8.D4.e	Describe and apply an understanding of the effects of multiple forces on an object, and how unbalanced forces will cause changes in the speed or direction.
New Data	ME	SCT.6-8.B1.b	Design and safely conduct scientific investigations including experiments with controlled variables.
1902: Success at Last	ME	SCT.6-8.A2.b	Propose changes to models and explain how those changes may better reflect the real thing.
1903: Powered Flight	ME	SCT.6-8.A2.b	Propose changes to models and explain how those changes may better reflect the real thing.
1903: Powered Flight	ME	SCT.6-8.B2.e	Evaluate a completed design or product.
1903: Powered Flight	ME	SCT.6-8.B2.f	Suggest improvements for their own and others' designs and try out proposed modifications.
1903: Powered Flight	ME	SCT.6-8.B2.g	Explain the design process including the stages of problem identification, solution design, implementation, and evaluation.

1903: Powered Flight	ME	SCT.6-8.D4.e	Describe and apply an understanding of the effects of multiple forces on an object, and how unbalanced forces will cause changes in the speed or direction.
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Learning Results: Parameters for Essential Instruction			
Maine Science and Technology			
Grades 9-12			
Activity/Lesson	State	Standards	
The Society	ME	SCT.9-12.B1.a	Identify questions, concepts, and testable hypotheses that guide scientific investigations.
The Society	ME	SCT.9-12.C4.b	Select and describe one of the major episodes in the history of science including how the scientific knowledge changed over time and any important effects on science and society.
1900: Kitty Hawks	ME	SCT.9-12.B2.a	Identify new problems or a current design in need of improvement.
1901: The First Improvement	ME	SCT.9-12.A2	Students evaluate the effectiveness of a model by comparing its predictions to actual observations from the physical setting, the living environment, and the technological world.
1901: The First Improvement	ME	SCT.9-12.B1.d	Formulate and revise scientific investigations and models using logic and evidence.
New Data	ME	SCT.9-12.B1.b	Design and safely conduct methodical scientific investigations, including experiments with controls.
New Data	ME	SCT.9-12.B1.c	Use statistics to summarize, describe, analyze, and interpret results.
1902: Success at Last	ME	SCT.9-12.A2	Students evaluate the effectiveness of a model by comparing its predictions to actual observations from the physical setting, the living environment, and the technological world.
1902: Success at Last	ME	SCT.9-12.B1.d	Formulate and revise scientific investigations and models using logic and evidence.
1902: Success at Last	ME	SCT.9-12.B2.a	Identify new problems or a current design in need of improvement.
1902: Success at Last	ME	SCT.9-12.B2.c	Select the design that best meets established criteria.
1904: Improvement in Dayton	ME	SCT.9-12.B1.g	Communicate and defend scientific ideas.